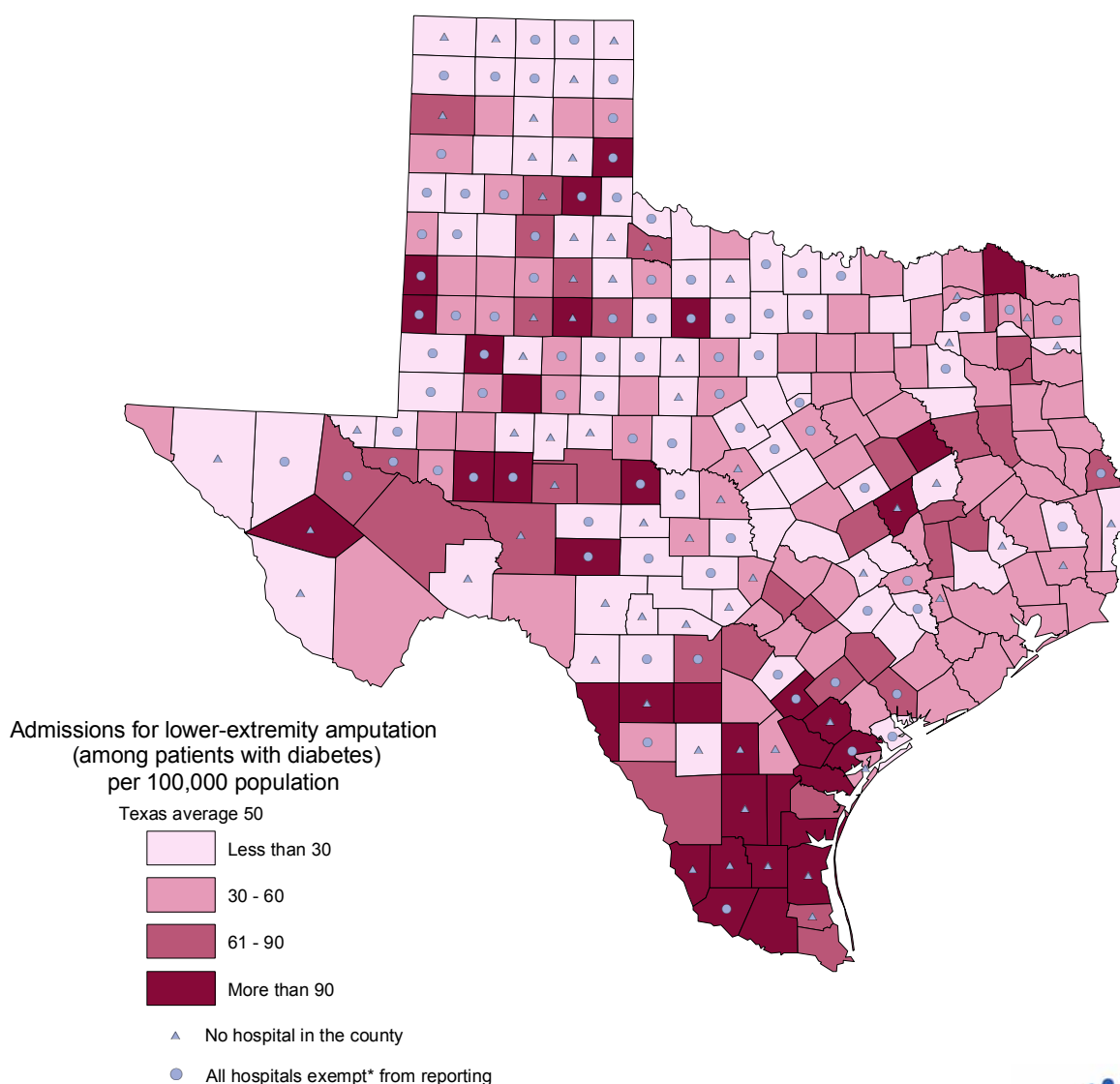


## 16. Lower-Extremity Amputation Among Patients with Diabetes

Lower extremity amputation (LEA) is a costly and disabling procedure. According to the American Diabetes Association, about 60-70% of people with diabetes have mild to severe forms of diabetic nerve damage, which in severe forms, can lead to the need for lower limb amputations. In fact, diabetes is the most frequent cause of lower limb amputations that were not made necessary by an injury. The risk of a leg amputation is 15-40 times greater for a person with diabetes than for a non-diabetic. Each year, 56,200 people lose a foot or leg to diabetes.



\* THCIC collects data from most Texas hospitals. Some hospitals are statutorily exempt from reporting (see Introduction for details).

Source: THCIC, Texas Inpatient Hospital Discharge Data, 2001.

**Table 16. Lower-Extremity Amputation (LEA) Among Patients with Diabetes**

Includes data from most Texas hospitals. Some hospitals are statutorily exempt from reporting to THCIC.

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	7,157	15,229,570	47.0	50.3	
Anderson	30	42,602	70.4	73.6	(40.0, 107.2)
Andrews	Less than 5	8,542			
Angelina	22	57,891	38.0	35.3	(15.3, 55.3)
Aransas	12	17,097	70.2	53.7	(8.4, 99.1)
Archer	0	6,511	0.0	0.0*	(0, 0)
Armstrong	0	1,542	0.0	0.0*	(0, 0)
Atascosa	14	26,996	51.9	50.8	(15.7, 85.9)
Austin	Less than 5	17,840			
Bailey	Less than 5	4,539			
Bandera	0	14,423	0.0	0.0*	(0, 0)
Bastrop	17	43,941	38.7	39.1	(15.0, 63.3)
Baylor	Less than 5	3,093			
Bee	21	23,068	91.0	94.3	(42.6, 146.1)
Bell	58	169,359	34.2	40.5	(28.0, 53.1)
Bexar	723	997,867	72.5	75.5**	(68.5, 82.6)
Blanco	Less than 5	6,535			
Borden	0	493	0.0	0.0*	(0, 0)
Bosque	7	13,338	52.5	37.6	(0, 80.5)
Bowie	36	66,187	54.4	50.6	(28.2, 73)
Brazoria	51	177,450	28.7	32.6*	(21.6, 43.5)
Brazos	36	111,434	32.3	46.1	(29.7, 62.6)
Brewster	Less than 5	6,634			
Briscoe	Less than 5	1,240			
Brooks	6	5,265	114.0	107.6	(0, 223.3)
Brown	16	27,733	57.7	49.7	(15.4, 83.9)
Burleson	Less than 5	12,153			
Burnet	7	27,097	25.8	13.4*	(0, 31.4)
Caldwell	17	23,890	71.2	70.5	(26.5, 114.4)
Calhoun	5	14,715	34.0	28.3	(0, 63.8)
Callahan	Less than 5	9,478			
Cameron	178	225,161	79.1	79.4**	(64.2, 94.6)
Camp	Less than 5	8,514			
Carson	Less than 5	4,615			
Cass	11	22,595	48.7	37.8	(4.7, 71)
Castro	Less than 5	5,318			
Chambers	6	19,068	31.5	33.5	(0, 67.5)
Cherokee	28	34,984	80.0	73.8	(36.6, 111.0)
Childress	0	5,934	0.0	0.0*	(0, 0)
Clay	Less than 5	8,329			
Cochran	Less than 5	2,490			
Coke	Less than 5	2,995			
Coleman	Less than 5	6,837			
Collin	59	387,199	15.2	26.3*	(19.7, 33.0)
Collingsworth	Less than 5	2,295			

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

**Table 16. LEA Among Patients with Diabetes (cont'd)**

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	7,157	15,229,570	47.0	50.3	
Colorado	6	14,935	40.2	27.5	(0, 62.2)
Comal	31	61,501	50.4	43.3	(21.9, 64.8)
Comanche	Less than 5	10,452			
Concho	Less than 5	2,945			
Cooke	5	26,841	18.6	12.1*	(0, 29.3)
Coryell	5	52,914	9.4	24.2*	(6.9, 41.5)
Cottle	0	1,373	0.0	0.0*	(0, 0)
Crane	Less than 5	2,585			
Crockett	Less than 5	2,768			
Crosby	Less than 5	4,767			
Culberson	0	1,859	0.0	0.0*	(0, 0)
Dallam	Less than 5	4,245			
Dallas	597	1,636,136	36.5	44.0*	(39.8, 48.2)
Dawson	13	10,547	123.3	118.4	(32.7, 204.1)
De Witt	5	11,856	42.2	39.7	(0, 86.6)
Deaf Smith	Less than 5	4,008			
Delta	66	335,935	19.6	33.4*	(25.3, 41.4)
Denton	11	15,089	72.9	62.2	(10.3, 114.2)
Dickens	Less than 5	2,020			
Dimmit	Less than 5	6,610			
Donley	0	2,921	0.0	0.0*	(0, 0)
Duval	13	9,048	143.7	139.2	(38.8, 239.5)
Eastland	9	13,717	65.6	50.7	(1.5, 99.9)
Ector	34	83,086	40.9	40.7	(22.8, 58.6)
Edwards	0	1,395	0.0	0.0*	(0, 0)
Ellis	33	80,840	40.8	43.8	(25.0, 62.7)
El Paso	256	466,634	54.9	58.3	(49.2, 67.3)
Erath	6	24,291	24.7	22.7*	(0, 47.4)
Falls	Less than 5	13,567			
Fannin	9	24,055	37.4	28.4	(0.6, 56.2)
Fayette	Less than 5	16,903			
Fisher	0	3,223	0.0	0.0*	(0, 0)
Floyd	Less than 5	5,179			
Foard	Less than 5	1,223			
Fort Bend	67	259,018	25.9	36.2*	(26.6, 45.8)
Franklin	6	7,346	81.7	68.0	(0, 145.9)
Freestone	15	13,748	109.1	101.4	(31.9, 170.9)
Frio	17	11,265	150.9	152.5**	(58.4, 246.6)
Gaines	Less than 5	9,295			
Galveston	86	186,973	46.0	46.0	(33.3, 58.7)
Garza	Less than 5	3,424			
Gillespie	0	16,520	0.0	0.0*	(0, 0)
Glasscock	0	918	0.0	0.0*	(0, 0)
Goliad	9	5,213	172.6	161.7	(19.2, 304.2)

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

**Table 16. LEA Among Patients with Diabetes (cont'd)**

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	7,157	15,229,570	47.0	50.3	
Gonzales	9	13,276	67.8	58.0	(4.5, 111.5)
Gray	7	16,705	41.9	30.9	(0, 65.8)
Grayson	31	84,450	36.7	30.5*	(15.1, 45.9)
Gregg	57	82,021	69.5	66.6	(43.6, 89.7)
Grimes	12	17,904	67.0	64.1	(15.7, 112.6)
Guadalupe	37	66,125	56.0	54.7	(31.4, 78)
Hale	8	24,586	32.5	29.3	(1.4, 57.3)
Hall	Less than 5	2,881			
Hamilton	Less than 5	6,188			
Hansford	0	3,720	0.0	0.0*	(0, 0)
Hardeman	Less than 5	3,358			
Hardin	17	34,769	48.9	45.3	(16.1, 74.6)
Harris	1,104	2,471,698	44.7	52.6	(48.9, 56.4)
Harrison	21	44,720	47.0	43.9	(18.5, 69.2)
Hartley	0	4,304	0.0	0.0*	(0, 0)
Haskell	Less than 5	4,511			
Hays	42	76,119	55.2	64.8	(41.2, 88.4)
Hemphill	0	2,357	0.0	0.0*	(0, 0)
Henderson	20	57,161	35.0	21.6*	(5.8, 37.3)
Hidalgo	385	376,373	102.3	105.1**	(91.6, 118.6)
Hill	13	24,528	53.0	42.3	(8.7, 75.9)
Hockley	6	15,288	39.2	36.2	(0, 75.5)
Hood	7	32,775	21.4	8.6*	(0, 21.8)
Hopkins	5	23,693	21.1	14.9*	(0, 35.2)
Houston	10	17,558	57.0	46.9	(5.1, 88.7)
Howard	27	24,198	111.6	105.0**	(51.7, 158.3)
Hudspeth	0	2,259	0.0	0.0*	(0, 0)
Hunt	19	57,385	33.1	30.0*	(11.5, 48.5)
Hutchinson	5	16,695	29.9	20.8*	(0, 49.4)
Irion	Less than 5	1,276			
Jack	0	6,436	0.0	0.0*	(0, 0)
Jackson	10	10,297	97.1	88.3	(13.4, 163.2)
Jasper	13	25,960	50.1	41.5	(9.2, 73.9)
Jeff Davis	5	1,638	305.3	294.0	(0, 636.5)
Jefferson	117	184,789	63.3	60.0	(45.4, 74.5)
Jim Hogg	Less than 5	3,554			
Jim Wells	31	27,312	113.5	110.3**	(58.9, 161.8)
Johnson	47	94,591	49.7	50.9	(32.1, 69.6)
Jones	Less than 5	15,482			
Karnes	11	11,356	96.9	92.3	(19.3, 165.2)
Kaufman	23	53,869	42.7	42.7	(19.9, 65.5)
Kendall	Less than 5	18,426			
Kenedy	Less than 5	289			
Kent	Less than 5	621			

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

**Table 16. LEA Among Patients with Diabetes (cont'd)**

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	7,157	15,229,570	47.0	50.3	
Kerr	11	34,350	32.0	12.3*	(0, 27.6)
Kimble	0	3,424	0.0	0.0*	(0, 0)
King	0	234	0.0	0.0*	(0, 0)
Kinney	0	2,619	0.0	0.0*	(0, 0)
Kleberg	25	21,679	115.3	117.7**	(58.1, 177.3)
Knox	Less than 5	2,964			
Lamar	20	36,085	55.4	48.5	(18.9, 78.2)
Lamb	Less than 5	10,212			
Lampasas	Less than 5	13,451			
La Salle	Less than 5	4,107			
Lavaca	13	14,390	90.3	73.5	(15.6, 131.3)
Lee	Less than 5	11,468			
Leon	5	11,761	42.5	26.9	(0, 65.6)
Liberty	30	52,621	57.0	57.9	(31.1, 84.8)
Limestone	14	16,327	85.7	78.1	(22.1, 134.0)
Lipscomb	0	2,208	0.0	0.0*	(0, 0)
Live Oak	Less than 5	8,914			
Llano	Less than 5	14,728			
Loving	0	52	0.0	0.0*	(0, 0)
Lubbock	73	176,312	41.4	44.0	(31.2, 56.7)
Lynn	Less than 5	4,475			
McCulloch	Less than 5	5,838			
McLennan	83	156,383	53.1	51.8	(37.1, 66.5)
McMullen	Less than 5	649			
Madison	9	10,010	89.9	89.5	(13.0, 166.0)
Marion	Less than 5	8,599			
Martin	Less than 5	3,161			
Mason	Less than 5	2,926			
Matagorda	15	26,371	56.9	54.0	(17.4, 90.6)
Maverick	47	30,673	153.2	155.1**	(97.5, 212.6)
Medina	21	28,778	73.0	69.4	(29.7, 109.2)
Menard	0	1,736	0.0	0.0*	(0, 0)
Midland	34	80,890	42.0	41.0	(22.8, 59.2)
Milam	13	17,739	73.3	62.8	(14.6, 110.9)
Mills	Less than 5	3,905			
Mitchell	Less than 5	7,183			
Montague	Less than 5	14,491			
Montgomery	54	224,427	24.1	26.9*	(18.1, 35.8)
Moore	Less than 5	13,441			
Morris	7	9,840	71.1	59.3	(0, 122.1)
Motley	0	1,038	0.0	0.0*	(0, 0)
Nacogdoches	21	43,797	47.9	50.0	(22.7, 77.3)
Navarro	16	33,351	48.0	42.8	(13.8, 71.9)
Newton	Less than 5	10,898			

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

**Table 16. LEA Among Patients with Diabetes (cont'd)**

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	7,157	15,229,570	47.0	50.3	
Nolan	Less than 5	11,047			
Nueces	188	218,601	86.0	86.9**	(70.7, 103.0)
Ochiltree	Less than 5	6,262			
Oldham	Less than 5	1,335			
Orange	33	61,663	53.5	49.2	(26.4, 72.1)
Palo Pinto	5	20,097	24.9	15.7*	(0, 38.3)
Panola	8	16,563	48.3	40.3	(0.4, 80.3)
Parker	23	67,286	34.2	33.2	(15.3, 51.2)
Parmer	0	6,498	0.0	0.0*	(0, 0)
Pecos	8	11,603	68.9	68.9	(6.5, 131.3)
Polk	22	33,464	65.7	53.2	(21.0, 85.5)
Potter	28	80,535	34.8	34.2	(17.5, 50.9)
Presidio	0	5,111	0.0	0.0*	(0, 0)
Rains	Less than 5	7,513			
Randall	13	77,487	16.8	15.7*	(4.2, 27.2)
Reagan	Less than 5	2,022			
Real	Less than 5	2,362			
Red River	16	10,812	148.0	134.8	(44.5, 225.2)
Reeves	7	8,682	80.6	77.3	(1, 153.7)
Refugio	7	5,656	123.8	114.2	(0, 229.1)
Roberts	0	625	0.0	0.0*	(0, 0)
Robertson	13	11,436	113.7	104.2	(27.0, 181.5)
Rockwall	7	34,487	20.3	23.4*	(2.3, 44.5)
Runnels	Less than 5	8,108			
Rusk	20	34,607	57.8	50.4	(19.5, 81.3)
Sabine	9	8,404	107.1	83.3	(2.7, 163.9)
San Augustine	Less than 5	6,717			
San Jacinto	7	17,203	40.7	28.8	(0, 61.9)
San Patricio	44	46,229	95.2	95.6**	(58.8, 132.4)
San Saba	Less than 5	4,428			
Schleicher	0	2,031	0.0	0.0*	(0, 0)
Scurry	5	11,551	43.3	37.1	(0, 82.9)
Shackelford	0	2,424	0.0	0.0*	(0, 0)
Shelby	8	18,761	42.6	33.1	(0, 67.1)
Sherman	0	2,292	0.0	0.0*	(0, 0)
Smith	74	132,169	56.0	51.8	(35.8, 67.8)
Somervell	Less than 5	4,908			
Starr	31	34,046	91.1	95.3**	(52.5, 138.1)
Stephens	Less than 5	7,074			
Sterling	0	894	0.0	0.0*	(0, 0)
Stonewall	Less than 5	1,201			
Sutton	7	2,859	244.8	242.2	(6.9, 477.6)
Swisher	Less than 5	5,835			
Tarrant	371	1,078,446	34.4	41.0*	(36.0, 46.0)

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

**Table 16. LEA Among Patients with Diabetes (cont'd)**

County	Admissions	Population	Observed Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk- Adjusted Admissions
State Total	7,157	15,229,570	47.0	50.3	
Taylor	42	89,211	47.1	46.5	(28.0, 64.9)
Terrell	0	735	0.0	0.0*	(0, 0)
Terry	Less than 5	8,638			
Throckmorton	Less than 5	1,342			
Titus	10	19,818	50.5	48.1	(8.2, 88.0)
Tom Green	60	74,295	80.8	78.6**	(52.3, 105.0)
Travis	191	615,946	31.0	42.4*	(35.7, 49.1)
Trinity	8	10,806	74.0	55.0	(0, 112.8)
Tyler	6	16,124	37.2	25.8	(0, 58.2)
Upshur	18	26,239	68.6	62.0	(22.7, 101.4)
Upton	Less than 5	2,200			
Uvalde	6	17,825	33.7	28.9	(0, 61.4)
Val Verde	17	31,109	54.6	53.7	(20.1, 87.3)
Van Zandt	11	37,362	29.4	18.0*	(0.2, 35.8)
Victoria	31	59,454	52.1	50.8	(27.1, 74.4)
Walker	28	48,424	57.8	64.7	(35.1, 94.3)
Waller	12	23,956	50.1	53.7	(15.4, 92.0)
Ward	6	7,204	83.3	77.1	(0, 160.8)
Washington	11	22,635	48.6	39.9	(5.9, 73.9)
Webb	103	127,997	80.5	87.4**	(66.3, 108.6)
Wharton	17	28,970	58.7	53.7	(18.8, 88.5)
Wheeler	Less than 5	3,773			
Wichita	50	94,894	52.7	51.1	(32.3, 69.9)
Wilbarger	Less than 5	10,291			
Willacy	10	12,861	77.8	75.9	(13.7, 138)
Williamson	36	191,598	18.8	27.0*	(17.4, 36.6)
Wilson	7	23,336	30.0	27.8	(0, 55.7)
Winkler	Less than 5	4,761			
Wise	7	37,039	18.9	18.2*	(0.3, 36.2)
Wood	20	29,120	68.7	53.1	(18.5, 87.6)
Yoakum	6	4,847	123.8	121.7	(0, 249.9)
Young	Less than 5	13,219			
Zapata	8	8,180	97.8	92.2	(6.3, 178.1)
Zavala	11	7,541	145.9	145.4	(33.1, 257.7)

Source: THCIC, Texas Inpatient Hospital Discharge Data, 2001.

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

